

CERTIFICATE OF CALIBRATION

ISSUED BY: LAMBDA CALIBRATION LTD

DATE OF ISSUE: 26th August 2025

CERTIFICATE No: 937422



0495

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Lambda
CALIBRATION LTD

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APPROVED SIGNATORY

C Reed E Santos R Armitage
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Customer: DJB Labcare Ltd, Milton Keynes, MK16 9QS

Item No: 1632

Description: Calibrator

Model/Range: TC303

Manufacturer: Beamex

Date of Cal: 21/08/2025 to 22/08/2025

Basis: E-2000

Equipment Used: Multifunction Calibrator (LMMC-10), Longscale Multimeter (LVD-37), Thermocouple Thermometer (LTHE-22), Thermocouple Probe (LTP-18)

Temp/Humidity: 20°C ± 2°C, <80%rh

Visual /Operational Checks:

Unit Under Test (UUT) Condition	Functional
Condition of Supplied Leads	Functional
Battery	Does not hold charge

Summary of Results:

Pre Calibration Status	Results reported as found
Post Calibration Status	Results reported as found
Adjustments	No
Repairs	No
Comments	-

Measured results and measurement uncertainties are detailed on the following pages.

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor $k=2$, providing a coverage probability of approximately 95%. The uncertainty evaluation has been carried out in accordance with UKAS requirements. Unless otherwise stated: [1] The 'Compliance Statement' is based on 'simple acceptance' (result vs tolerance) with the relevant calibration uncertainty being no greater than the tolerance. [2] Reported activities were carried out at the address detailed in the header. [3] The results relate only to the items calibrated. This certificate is issued in accordance with the laboratory accreditation requirements of the United Kingdom Accreditation Service. It provides traceability of measurement to the SI system of units and / or to units of measurement realised at the National Physical Laboratory or other recognised national metrology institutes. This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory.

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Reference Temperature Error

The UUT was left overnight to stabilise. The UUT indication from a calibrated thermocouple probe was compared to a laboratory reference probe.

UUT Indication (°C)	Reference Temperature (°C)	Error (°C)
21.0	20.81	0.19

Reference probe reported temperature: 20.81°C

Measurement Mode:

The UUT was set to T-Type thermocouple, reference temperature set to 0°C. Voltages equivalent to the Nominal Temperatures were applied.

Nominal Temperature (°C)	Applied Voltage (mV)	UUT Indication (°C)
-190.0	-5.439	-190.1
-80.0	-2.788	-80.0
-50.0	-1.819	-50.0
-30.0	-1.121	-30.0
-10.0	-0.388	-10.2
0.0	0.000	0.0
4.0	0.156	4.0
37.0	1.486	37.0
50.0	2.036	50.0
100.0	4.273	100.0
150.0	6.704	150.0
200.0	9.288	200.0
250.0	12.013	250.0
300.0	14.862	300.0
390.0	20.255	390.0

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Simulation Mode

The UUT was set to T Type thermocouple simulate, with reference temperature set to 0°C. The UUT output voltage was measured.

UUT Setting (°C)	Nominal Output (mV)	Measured Output (mV)	Equivalent Temperature (°C)
-190.0	-5.439	-5.437	-189.9
-80.0	-2.788	-2.785	79.9
-50.0	-1.819	-1.818	-50.0
-30.0	-1.121	-1.120	-30.0
-10.0	-0.383	-0.382	-10.0
0.0	0.000	0.000	0.0
4.0	0.156	0.156	4.0
37.0	1.486	1.488	37.0
50.0	2.036	2.037	50.0
100.0	4.279	4.279	100.0
150.0	6.704	6.703	150.0
200.0	9.288	9.287	200.0
250.0	12.013	12.013	250.0
300.0	14.862	14.862	300.0
390.0	20.255	20.255	390.0

End of Results

Estimated Uncertainty of Measurement:

Reference Junction Measurement: $\pm 0.12^{\circ}\text{C}$

Simulated Temperature: $\pm 0.13^{\circ}\text{C}$

DC Voltage Measurement: $\pm (93\text{ppm} + 4.1\mu\text{V})$